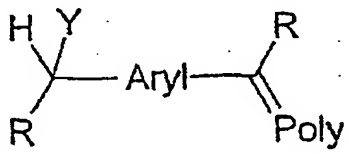
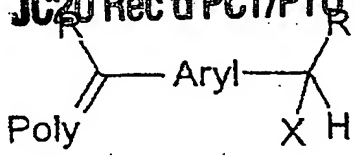
11. Poly(arylenevinylenes) containing at least 0.1 mol% of units of the formula (Ia) and/or (Ib)

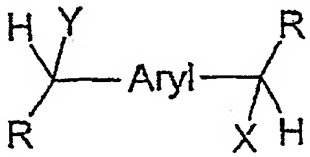


Formula (Ia)



Formula (Ib)

obtainable from bis(halomethyl)arylenes or halomethylsulfinylmethylarylenes by base-induced dehydrohalogenation, characterized in that the reaction is carried out in the presence of 0.1-80 mol% of one or more compounds of the formula (I):



Formula (I)

where the symbols are defined as follows:

Aryl is the same or different at each instance and is a bivalent aromatic or heteroaromatic ring system which has from 2 to 40 carbon atoms and may be substituted by R^1 radicals or else be unsubstituted, or an R^1-substituted or unsubstituted stilbenylene unit; the two substituents CHXR and CHYR are arranged in such a way that there is an even number of aromatic atoms between them; the aryl and heteroaryl systems may also be part of a larger fused aromatic ring system; the possible substituents R^1 may potentially be situated at any free position;

R is the same or different at each instance and is an alkyl chain which has from 1 to 40 carbon atoms and may be straight-chain, branched or cyclic, and may also be substituted by one or more R^1 radicals or be unsubstituted, in which one or more nonadjacent carbon atoms may also be replaced by $-CR^2=CR^2-$, $-C\equiv C-$, $-NR^2-$, $-O-$, $-S-$, $-CO-$, $-CO-O-$,

$-CONR^2-$, $-O-CO-O-$, and one or more hydrogen atoms may also be replaced by fluorine, an aromatic or heteroaromatic ring system which has from 2 to 40 carbon atoms and may be substituted by R^1 or be unsubstituted, an R^1-substituted or unsubstituted stilbenyl or tolanyl unit, $-Si(R^2)_3$, $-N(R^2)_2$, $-OR^2$ or a combination of these systems; the aryl and heteroaryl systems may also be part of a larger fused aromatic ring system; the possible substituents may potentially be situated at any free position;

X is the same or different at each instance and is Cl, Br, I, trifluoromethanesulfonate or arylsulfonate;

Y is the same or different at each instance and is Cl, Br, I, trifluoromethanesulfonate, arylsulfonate, $-S(O)-R^2$ or R^1;

R^1 is the same or different at each instance and is a straight-chain, branched or cyclic alkyl chain having from 1 to 40 carbon atoms, in which one or more nonadjacent carbon atoms may also be replaced by $-CR^2=CR^2-$, $-C\equiv C-$, $-NR^2-$, $-O-$, $-S-$, $-CO-$, $-CO-O-$, $-CONR^2-$, $-O-CO-O-$, and one or more hydrogen atoms may be replaced by fluorine, an aromatic or heteroaromatic ring system which has from 2 to 40 carbon atoms and may also be substituted by one or more nonaromatic R^1 radicals, a substituted or unsubstituted vinyl group or Cl, F, CN, $N(R^2)_2$, $B(R^2)_2$; the aryl and heteroaryl systems may also be part of a larger fused aromatic ring system; the possible substituents may potentially be situated at any free position; two or more R^1 radicals together may also form a ring system;

R^2 is the same or different at each instance and is H, a straight-chain, branched or cyclic alkyl chain having 1 to 22 carbon atoms, in which one or more nonadjacent carbon atoms may also be replaced by $-O-$, $-S-$, $-CO-O-$, $-O-CO-O-$, and one or more

hydrogen atoms may also be replaced by fluorine, an aryl or heteroaryl system which has from 2 to 40 carbon atoms and may also be substituted by one or more nonaromatic R^1 and

Poly represents a bond to a poly(arylenevinylene) main chain.